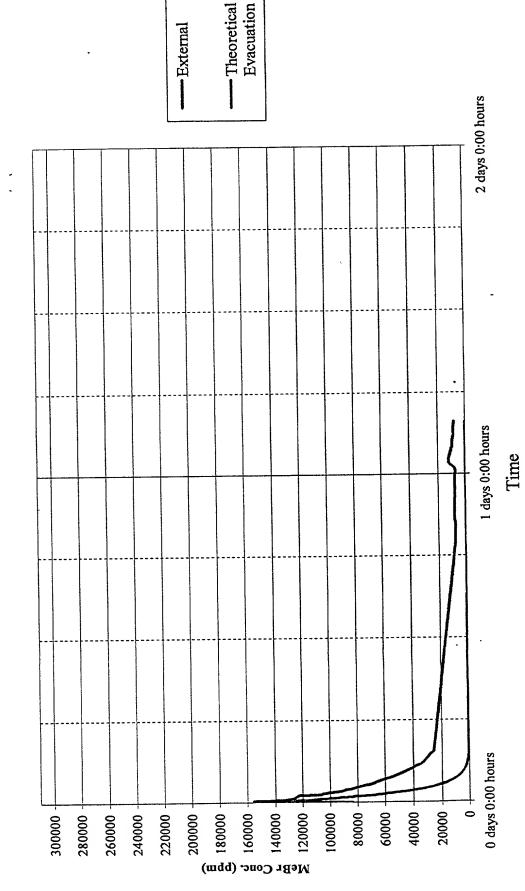
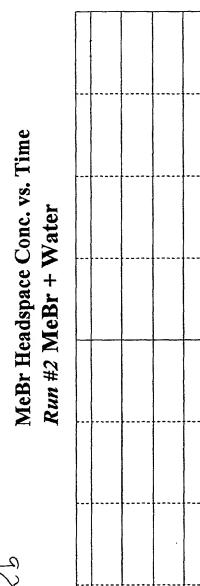
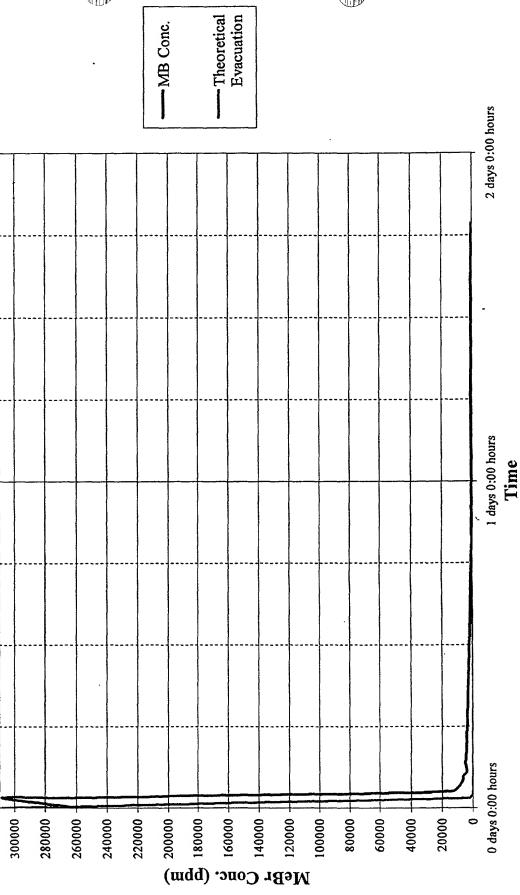


MeBr Headspace Conc. vs. Time

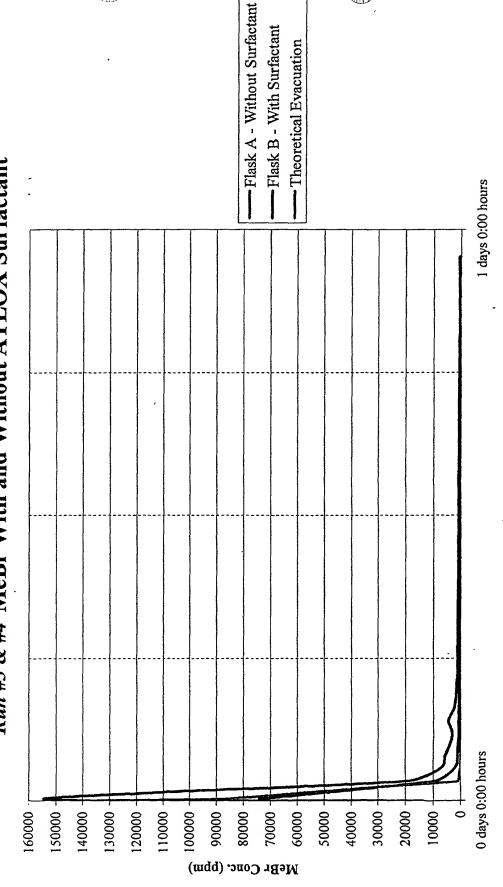
Run #1 MeBr + ATLOX Surfactant + Water











Time

FLASK A had 2 mL of MeBr added, FLASK B had 0.5 mL added.

F19.3

Treatment of different tree of tubing with Chlaspickin Granulation

| Tubing Type                         | Immediate Rx | Wall Thickness<br>after 15 Hours | Elasticity/<br>Strength after 15<br>Hours | General<br>Appearance<br>Integrity After<br>15 Hours |
|-------------------------------------|--------------|----------------------------------|---|--|
| Black Seamless Latex                | none         | no change                        | maintained                                | no effect  |
| FEP Teflon                          | none         | no. change                       | maintained                                | no effect  |
| Nalgene 860 Tissue<br>Culture Grade | none         | no: chappe                       | maintained                                | sticky   |
| Manosilt                            | none         | norchange                        | maintained                                | no effect  |
| Tygon R3603                         | none         | reduced thick-                   | reduced slightly                          | appeared melted                                      |
| Nalgene 180 Premium<br>PVC          | none         | reduced thickm                   | reduced slightly                          | slightly opaque,<br>appeared melted                  |

### Nematode Efficacy - Chloropicrin of Various EC Percentages

**Drip Application** 

Summary of Results

|           |                            |                       | Nem    | atode Spe | ecies <sub>p</sub>             |                           |        |     |
|-----------|----------------------------|-----------------------|--------|-----------|--------------------------------|---------------------------|--------|-----|
| Cylinder# | Root Knot<br>(Meloidogyne) | Dagger<br>(Xiphinema) | Citrus | Pin       | Root Knot<br>(Meloidog<br>yne) | Dagger<br>(Xiphinem<br>a) | Citrus | Pin |
|           |                            | Counts                |        |           |                                | — Adjusted                | Counts | - § |
|           |                            |                       |        |           |                                |                           |        |     |
| 1         | 5                          | 3                     | 168    |           | 15                             | 9                         | 504    | a   |
| 2         | 22                         | 4                     | 216    | 28        | 66                             | 12                        | 648    | 84  |
| 3         | 1                          | 2                     | 456    |           | 3                              | 6                         | 1368   | 0   |
| 4         | 49                         |                       | 338    | 9         | 147                            | 0                         | 1014   | 27  |
| 5         | 0                          |                       | 7      |           | 0                              | 0                         | 21     | 0   |
| 6         | 23                         |                       | 40     | 4         | 69                             | 0                         | 120    | 12  |
| 7         | 112                        |                       | 80     | 14        | 336                            | 0                         | 240    | 42  |
| 8         | 29                         |                       | 79     |           | 87                             | 0                         | 237    | 0   |
| 9         | 0                          |                       | 114    |           | 0                              | 0                         | 342    | 0   |
| 10        | 16                         |                       | 72     |           | 48                             | 0                         | 216    | 0   |
| 11        | 22                         |                       | 160    |           | 66                             | 0                         | 480    | 0   |
| 12        | 29                         |                       | 87     |           | 87                             | 0                         | 261    | 0   |
| 13        | 115                        |                       | 136    |           | 345                            | 0                         | 408    | 0   |
| 14        | 16                         |                       | 30     |           | 48                             |                           | 90     | 0   |
| 15        | 22                         |                       | 31     |           | 66                             |                           | 93     | 0   |
| 16        | 79                         |                       | 82     |           | 237                            | 0                         | 246    | - 0 |
| 17        | 15                         | ·                     | 17     |           | 45                             |                           | 51     | C   |
| 18        | 30                         |                       | 81     |           | 90                             |                           | 243    | (   |
| 19        | 69                         |                       | 109    |           | 207                            | 0                         | 327    | (   |
| 20        | 26                         |                       | 68     |           | 78                             | 0                         | 204    | (   |

<sup>§ 33%</sup> extraction efficiency, measured values multiplied by 3

No counts were obtained for Ring nematode statistical analysis.

### The first from the cost of the first first

## Chloropicrin EC - Lab Tests for Weed Seed Mortality PICIVERED

|                                     |                         |                           |                                      | urtality              | Control                  |                    | %0                                      | 47%                           | %8%                                | ——/ <sub>0/0</sub> 99               | 63%                             | 65%                                 | %89                               |   | 1 4 4 4                                 | くいっかないから                                | 7  |  |  |  | and the same of                          |
|-------------------------------------|-------------------------|---------------------------|--------------------------------------|-----------------------|--------------------------|--------------------|---|-------------------------------|------------------------------------|-------------------------------------|---------------------------------|-------------------------------------|-----------------------------------|---|---|---|--|--|--|--|--|
|                                     |                         | <del></del>               |                                      | t                     | s ∆bove                  |                    | 0                                       | <b>(</b> +                    | \$                                 | 99                                  | 9                               | 9                                   | 39                                | N. S.   |   | A.155.62                                | - No.  | × ×  |  |  |  |
|                                     |                         |                           |                                      | 2nd Count % Mortality | at 12 Days Above Control | Mean               | 32%                                     | 466                           | %06                                | %86                                 | 95%                             | %26                                 | 100%                              |   |   |   | からないことというというとう あるないないことにいいていい                        | · 化石榴片 水体的   | September 1  | SAME AND ADDRESS OF THE PARTY AND ADDRESS OF T | 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7 |
|                                     |                         |                           |                                      |                       |                          | Rep 4              | 25%                                     | %89                           | 94%                                | %96                                 | 930                             | 0000                                | 1(X10 a                           |   |   |   |  | \$ 50 m  | N. STATES  | A STATE OF   | 100                                      |
|                                     |                         |                           |                                      |                       | 2nd Count                | Rep 3              | 45%                                     | 26%                           | 81%                                | %66                                 | 970,                            | 0,006                               | 0 11119%                          | 1700  |   |   | を会が  | 変なる  | を一を  | * * * * * * * * * * * * * * * * * * *  | THE PARTY NAMED IN                       |
|                                     | 3)                      |                           |                                      |                       | 2nc                      | Rep 2              | 34%                                     | 84%                           | %96 9                              | % 61%                               | 0 94%                           | 080%                                | 1019°                             |   | _                                       | -                                       |  | を  | <b>然為</b>  |  |  |
|                                     | (% Mortality)           |                           |                                      | ) Li                  | ıys                      | Rep                | 25%                                     | %58                           | %06 °                              | %001 °                              | 97%                             | %16                                 | 6 100%                            | 100   |   |   | W 2 4 53.65  | 10 miles   | <b>1000</b>  | 数本 保み  |  |
|                                     | %)                      |                           |                                      | 1st Count             | at 8 Days                | Mean               | 78%                                     | %68                           | 94%                                | %86                                 | 26%                             | %66                                 | 100%                              |   | `                                       | 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | in the teator of                                     |  | は数数数   |  |  |
|                                     |                         |                           |                                      |                       | ,                        | Rep 4              | %08                                     | %98                           | %96                                | %96                                 | %86 '                           | 100%                                | 100%                              |   |   | 4.00                                    | を を を を を を を を を を を を を を を を を を を                |  |  |  |  |
|                                     |                         |                           |                                      |                       | 1 st Count               | 2 Rep 3            | %58 9                                   | %06 9                         | %88 9                              | %66 9                               | %001                            | %06 %                               | , 100%                            |   | _                                       | ر ماکیات ا                              | AR SHORES  | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                      |  |  |  |
|                                     |                         |                           |                                      |                       | 5                        | l Rep 2            | %17 %                                   | % 61%                         | %86 %                              | % 61%                               | %86 %                           | %66 %                               | %001 %0                           |   |   | Sec. 18. 18. 18.                        | 報報 物報  |  |  |  |  |
| 0                                   |                         | 666                       | ays                                  |                       |                          | A Repl             | 5 74%                                   | 2 87%                         | 94%                                | 100%                                | 1%                              | %96                                 | 100%                              |   |   | mile christin                           | WAS DAY  | <b>新</b>   |  |  |  |
| sh = 100                            |                         | nt = 11/9/1               | nt = 12 Days                         |                       |                          | 3 Rep 4            | 57 75                                   | 32                            | 9                                  | -                                   |                                 | _                                   | _                                 |   |   | 1.80 MARCHEST 1808                      | 100 May 1  | 100  | 機構機  | を表しい。  |  |
| Number of Seeds/Dish =              |                         | Date of Count = 11/9/1999 | Time from Treatment =                |                       | 2nd Count                | 2   Rep 3          | 55                                      | 21                            | 61                                 | _                                   |                                 |                                     |                                   |   |   | 4.4                                     | <b>新华 安徽</b>   | A44 844  |  |  |  |
| Number                              | Counts                  | _                         |                                      |                       | 2                        | 1   Rep 2          | 99                                      | 91                            | 4                                  | 3                                   | 9                               | 2                                   | ľ                                 |   | -                                       | 1 2 5 6 1                               | Water State  | 46 198   | 製を   |  |  |
| 666                                 | Seed Germination Counts | 66                        | /s Elapsed                           |                       |                          | 4 Rep l            | 75                                      | 15                            | 2                                  | 0                                   | ·                               | 6                                   | =                                 |   |   | E11 2 2 113                             | 大学の大学の大学の大学は、大学、大学、大学、大学、大学、大学、大学、大学、大学、大学、大学、大学、大学、 | <b>树树</b>  | が変し  |  | The second second                        |
| Treatment Date = 10/28/1999         | ed Gem                  | Date of Count = 11/5/1999 | - 8Day                               |                       |                          | Rep 4              | 20                                      | 14                            | 4                                  | 4                                   | 2                               | 0                                   | 0                                 |   | ·                                       | -                                       | 大学 大学  | P 10 20  | (A) (A) (A)  |  |  |
| Invent Date                         | Š                       | te of Count               | ı Treatment                          |                       | 1st Count                | Rep 3              | 15                                      | 2                             | 12                                 | -                                   | 0                               | -                                   | ٥                                 |   |   |   | Page 1   | 李 《  | <b>多数特殊</b> 等  |  |  |
| Treat                               |                         | ä                         | Elapsed Time from Treatment = 8 Days |                       | 1s                       | Rep 1 Rep 2 Rep 3  | 29                                      | 6                             | 2                                  |                                     | 2                               | <u> </u> -                          | 5                                 |   | <u>_</u>                                | _                                       | 47 m C   | Carting of the   | 華金 端   |  |  |
|                                     |                         |                           | Elapse                               |                       |                          | Rep 1              | -                                       | 5                             | ٥                                  | 0                                   | 0                               | 7                                   | =                                 |   | _                                       |   | 12.  | をはい  | でいる。   | · · · · · · · · · · · · · · · · · · ·  |  |
| sity offering                       |                         |                           |                                      |                       |                          | Solution           | NEW SEEP   Control 0 ppm, 0% Emulsifier | iffer                         | Isifiei                            | ulstfier                            | melsetier                       | mistici                             | amulsitier                        | THE REPORT OF THE PARTY OF THE | OLD SBBD   Control 0 ppm, 0% Emulsifier | iifier                                  | Isifier  | OLD SBBD   500 ppm, 5% Emulsifier 2 18 18 18 18 18 18 18 18 18 18 18 18 18 | OLD SBBD   500 ppm, 50% Emulsifier and the second by the s | OLD SHID .: 1000 pom. 5% Emulsifier in the state of the s |  |
| Weed Seed: Joneannatus retrofferits |                         |                           |                                      |                       | Treatment                | Treatment Solution | 1 0 ppm 0                               | NEW NEED 0 ppm, 5% Emulsifier | NFIF.SI 1D   0 ppm, 50% Emulsifier | N/ IF N/ 1 D 500 pom, 5% Landstfier | V#511D 500 ppm, 50%   mulvifier | A/ If A/ D 1000 ppm, So I mulsefier | A H S/FP 11040 opm 50% Emulsifier |   | o nad o la                              | OLD SEBD 0 ppm, 5% Emulsifier           | OLD SBBD 0 ppm, 50% Emulsifier                       | om, 5% Em  | om. 50% E  | 70m. 5% El   |  |
| d: . Imen                           |                         |                           |                                      |                       | Trea                     | _                  | Contro                                  | mad 0                         | 0 0 00000                          | 500 pp                              | 300 pp                          | 1000 0                              | 10,000                            | W. W. W.  | Contro                                  | O ppm,                                  | O ppm.   | 200 pc   | 2 500 pc   | 2 · 1000 r   |  |
| Veed See                            |                         |                           |                                      |                       |                          | Seed Age           | N.W. SEET                               | NEW SPET                      | N. II. S.I. I.                     | NI II. NI II                        | VIIISIII                        | MIL NII                             | N B SFF                           | The state of  | OLD SBBL                                | OLD SBBL                                | OLD SBBL   | OLD SBBL   | OLD SBBL   | OLD SHRL   | -  |

NEW SEED Anova: Single Factor

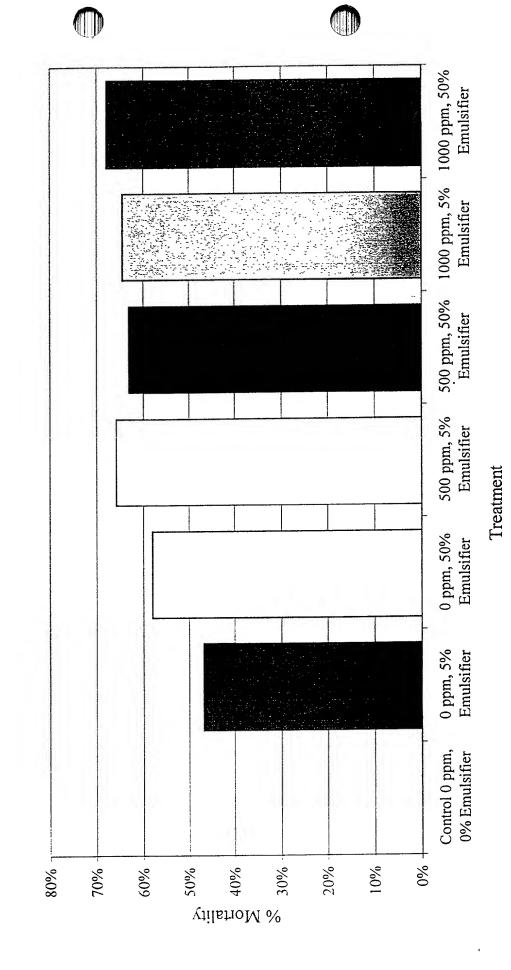
HIGHLY SIGNIFICANT DIFFERENCE @ 99%

| SUMMARY |       |      |         |           |
|---------|-------|------|---------|-----------|
| Groups  | Count | Sum  | Average | Variance  |
| Row 1   | 4     | 1 29 | 0 3225  | 0.009025  |
| Row2    | 4     | 3,18 | 0.79    | 0 0060687 |
| Row3    | 4     | 3.61 | 0.9025  | 0.004425  |
| Row 4   | 4     | 3,92 | 0 98    | 0.0003333 |
| Row 5   | 4     | 381  | 0 9525  | 0.000425  |
| Row6    | 4     | 387  | 0.9675  | 0 0014917 |
| Row 7   | 4     | 4    | -       | ٥         |

| ANOVA<br>Source of Variation<br>Between Groups<br>Within Groups | SS df<br>1.3926<br>0.0653 | 21.0 | AS<br>0.2321<br>0.00311 | F<br>74.641654 | P-value<br>4.55£-13 | df MS F P-value F crit<br>6 0 2321 74,641654 4,55E-13 5,880793<br>21 0,00311 |
|---|---------------------------|------|-------------------------|----------------|---------------------|--|
| Total   | 1 4579                    | 27   |                         |                |                     |  |



% Mortality of New Weed Seeds Over Control Pigweed



## 13 3 Chloropicrin BC - Lab Tests for Weed Seed Mortality WHITE SWEET

CLOVER

| 2% 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2%<br>4%<br>5%<br>7%<br>4%<br>4%  | 2%<br>14%<br>55%<br>77%<br>44%  | 2%<br>4%<br>5%<br>5%<br>7%<br>17%<br>19%<br>00%<br>3%   | 22%<br>45%<br>55%<br>77%<br>13%<br>13%<br>77%<br>77%<br>77%<br>77%<br>77%  |
|--|---|---|---|--|
|  |   |   |   |  |
| 93%                                      | 93%<br>96%<br>96%<br>98%<br>98%   | 93%<br>95%<br>96%<br>96%<br>98%<br>98%<br>77%   | 93%<br>95%<br>96%<br>96%<br>98%<br>95%<br>777%<br>80%<br>83%  | 93%<br>95%<br>96%<br>96%<br>98%<br>98%<br>80%<br>83%<br>83%  |
| +-                                       |   |   |   |  |
|  |   |   |   |  |
|  |   |   |   |  |
| $\dashv$                                 |   |   |   |  |
|  |   |   |   |  |
| +  | <del></del>   |   |   | <del></del>  |
| ++-                                      |   |   |   |  |
| ++                                       | <del></del>   |   |   |  |
| 5 (                                      |   |   |   |  |
| 2  | 9 1 1   | 1 3 - 6 7   | 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | 26 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6   |
| 4 "                                      | 2 T T 13  | 4 4 4 13 25 25 25 25  | 13 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4  | 22 23 23 25 25 25 25 25 25 25 25 25 25 25 25 25  |
| 9 4                                      | 6 5 7 1 0 0   | 6 6 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9   | 5 5 0 0 0 0 8 8 8 6 6   | 5 2 2 3 3 0 0 0 2 3 2 2 3 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5  |
|  | 3 0 2 - 2   |   |   |  |
|  |   |   | 7<br>4<br>4<br>4<br>4<br>3<br>13  |  |
|  |   | 2 2 3 3 2 2 C C C C C C C C C C C C C C   |   |  |
| 5  | 2 2 2 0   | \$ \$ \$ 3 3 4 4 5 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |   |  |
| 1  |   |   |   |  |
| VIII SULL Oppm, 50° a Emulsine           | mulsifier<br>Emulsifier<br>Emulsifier   | ALB SALLO O ppm, 30° e Eministica ALB SALLO 500 ppm, 3° e Eministica ALB SALLO 500 ppm, 5° e Eministica ALB SALLO 1000 ppm, 5° e Eministica ALB SEED 1000 ppm, 50° e Emilistica OLD SEED Control O ppm, 0° Emulsifica | mulsifier Emulsifier Emulsifier 5 Emulsifier 0% Emulsifier milsifier  | mistice mulsifier Linulsifier Emulsifier o% Emulsifier mulsifier mulsifier Emulsifier Emulsifier Emulsifier  |
| 0 ppm 50 t.                              | XII V11.1 500 ppm, 3° o Emulsifier XI W.H.1 1 500 ppm, 5° o Emulsifier XI H.M.F.1 1 1000 ppm, 5° o Emulsifier XI H.Y.L.1 1000 ppm, 5° o Emulsifier XI W.H. SEED 1000 ppm, 50° o Emulsifier XI W.H. SEED 100° o Emulsifier XI W.H. | 500 ppin, 5°° 1:<br>500 ppin, 50°° 1:<br>1000 ppin, 50°° 2<br>1000 ppin, 50°° 3<br>Control 0 ppin,  | N.H. VI.1. 500 ppm, 3° e. Emulsifi, N.H. VI.1. 500 ppm, 3° e. Emulsi, N.H. VI.1. 1000 ppm, 5° e. Emulsi, N.H. VI.1. 1000 ppm, 5° e. Emulsi, N.H. VELD. 1000 ppm, 5° e. Emulsi, OLD SEED. Control 0 ppm, 0% Emulsifier OLD SEED. Control 0 ppm, 5% Emulsifier OLD SEED. 0 ppm, 5% Emulsifier OLD SEED. | ALH VILLA 500 ppm, 5° e-i-mulsifier AI H'M-II 500 ppm, 5° e-i-mulsifier AI H'M-II 1000 ppm, 5° e-i-mulsifier AI II VILD 1000 ppm, 5° e-i-mulsifier AI II VILD 1000 ppm, 5° e-i-mulsifier OLD SEED Control 0 ppm, 0° e-i-mulsifier OLD MALD 10 ppm, 5° e-i-mulsifier OLD MALD 10 ppm, 5° e-i-mulsifier OLD MALD 100 ppm, 5° e-i-mulsifier OLD 100 ppm, 5° e-i-mulsifier OL   |
| 2005                                     | 41.17 500<br>41.17 10C<br>41.17 10C   | N.L.D 500<br>N.L.D 500<br>N.L.D 100<br>SEED 100   | VL.D 500<br>VL.D 500<br>VL.D 100<br>SEED 100<br>SEED CO<br>SEED CO<br>SLED 0 P  | 41.1.1 500 41.1.1 100 41.1.1 100 41.1.1 100 41.1.1 100 41.1.1 100 41.1.1 100 41.1.1 100 41.1.1 100 41.1.1 100 41.1.1 100 41.1.1 100 41.1 1   |
|  | N. H. S.<br>N. H. S.<br>NEW S   | N.H.N.<br>N.H.N.<br>N.H.N.  | NI II.N<br>NIII.N<br>NIII.N<br>OLD S<br>COLD S<br>COLD S<br>COLD S  | NI II'N<br>NI II'N<br>NI II'N<br>NI II'N<br>OILD S<br>OILD |

NEW SEED Anova: Single Factor SUMMARY

No Significance

No Significance

OLD SEED Anova: Single Factor

 W1
 Groups
 Count
 Sum
 Average
 Validance

 W2
 4
 3.64
 0.91
 0.0024887

 W3
 4
 3.71
 0.9275
 0.0003833

 W4
 3
 4
 3.84
 0.96
 0.0003333

 W6
 4
 3.85
 0.9825
 0.0007583

 W6
 4
 3.92
 0.98
 0.0003333

 W7
 4
 3.81
 0.9525
 0.0034917

 SUMMARY
 Sum
 Average
 Variance

 Row1
 3 07
 0.7675
 0.00708167

 Row2
 4
 3.19
 0.7875
 0.0078825

 Row3
 4
 3.19
 0.7875
 0.009825

 Row4
 4
 3.72
 0.93
 0.00286

 Row5
 4
 3.45
 0.825
 0.0028

 Row6
 4
 3.45
 0.8625
 0.0107

 Row7
 4
 3.52
 0.88
 0.01488667

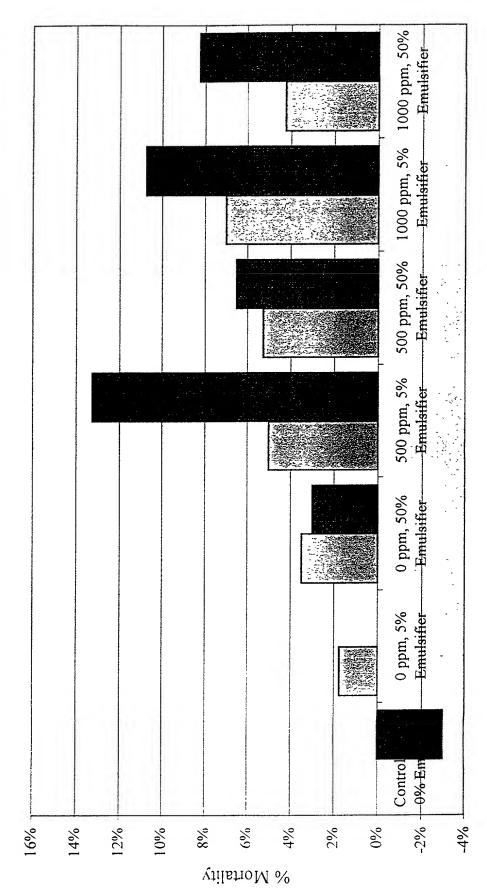
ANOVA
Source of Variation SS df MS F P-value F crit
Between Groups 0.08197 6 0.01366 1.27866102 0.30875 2.57271
Within Groups 0.2242 2.1 0.01088
Total 0.30617 27

6 0.002181 1.7943193 21 0.001215

\$\$ 0.013086 0.025525

ANOVA Source of Variation Between Groups Within Groups

% Mortality of New Weed Seeds Over Control White Sweet Clover



Treatment

Chloropicrin EC - Lab Tests for Weed Seed Mortality WILD MUSTARD

% Mortality Above Control -30 %0 %0 0%0 0%0 at 12 Days 2nd Count %001 %86 100% 22% 23% 17% 19% 23% 100% %001 100% 18% 12% 15% 24% 26% 46% 21% 100% %001 %001 %00<u>1</u> %001 100% 30% %88 30% % 50% % 100 87% %86 %86 % 100% 100% 49% 22% 38% 24% 23% (% Mortality) Rep 1 100% 100% %66 64% %86 %86 <u>%</u> % 81 17% %61 at 8 Days 1st Count 100% 100% Mean 64% 69% 70% 70% 75% 75% 79% 100% %001 100% 67% 72% 68% 64% 25% %66 %66 %66 100% %91 78% 100% %001 %00I 90% 82% 97% %001 %\$9 %16 1st Count 100% %86 %66 100% 100% 84% %68 %69 %86 74% %69 60% 60% 70% 69% 100% 98% 99% 100% 97% 65% 66% 72% %86 Date of Count = 11/9/1999 Elapsed Time from Treatment = 12 Days 9 88 4 Number of Seeds/Dish = Rep 3 8 2 0 6 6 2nd Count Rep 2 77 26 2 11 8 Seed Germination Counts 8 36 8 2 8 83 Treatment Date = 10/28/1999 Date of Count # 11/5/1999 11/8/1999 Elapsed Time from Treatment = 8 Days 32 36 4 Date of Count = Elapsed Tune from Treatment = st Count Rep 2 7 40 28 8 Control 0 ppm, 0% Emulsifier Control O ppm, 0% Emulsifier O ppm, 5% Emulsifier 1000 ppm, 50% Emulsifier 1000 ppm, 50% Emulsifier 500 ppm, 50% Emulsifier 1000 ppm, 5% Emulsifier 1000 ppm, 5% Emulsifier 500 ppm, 50% Emulsifier 500 ppm, 5% lanulsifier 500 ppm, 5% Lmulstfier Treatment Solution 0 ppm, 50% Emulsifier Weed Seed: Brassica kaber 0 ppm, 5% Emulsther 0 ppm, 50% Finulstile Treatment SILIF SLITD NI.B' SEED N.F.W. SI.P.D CITIS CHO OLD SLLD N.I.W.SLLD NI.B' SI.LD NEW SLED OLD SEED OID SEED NEIL SEED OLD SELD OLD SELD OLD SELD Seed Age

| STICONE SINGLE PECTOT |       |      |         |                 |
|-----------------------|-------|------|---------|-----------------|
| SUMMARY               | Count | Sum  | Average | Vaciance        |
| Row 1                 | 4     | 1 86 | 0 485   | 0.0023          |
| tow2                  | 4     | 0 88 | 0 22    | 0 00048867      |
| Row3                  | 4     | 60   | 0 225   | 0.00296667      |
| Now 4                 | 4     | 0 67 | 0.1675  | 0.007025        |
| low 5                 | 4     | 0 76 | 0.19    | 0.19 0.00153333 |
| low 6                 | 4     | 0.93 | 0.2325  | 0.00249187      |
| Row7                  | 4     | 2 98 | 0 745   | 0.02298887      |

3.98 3.98 3.98 3.92

> Row 2 Row 4 Row 5 Row 6 Row 6

SIGNIFICANT DIFFERENCE @ 95%

OLD SEED Anova, Single Factor

SUMMARY Groups Row 1

|       | Fort                | 2.57271        |               |               |
|-------|---------------------|----------------|---------------|---------------|
|       | P-value             | 0.02324        |               |               |
|       | F                   | 3,14545455     |               |               |
|       | WS                  | 0 00021        | 8.5E-05       |               |
|       | Jρ                  | 8              | 2             | 77            |
|       | SS                  | 0.00124        | 0.00137       | Total 0.00261 |
| ANONA | Source of Variation | Between Groups | Within Groups | Total         |

MS F P-value 0.178989 31.5201258 1.87E-09 0.005679

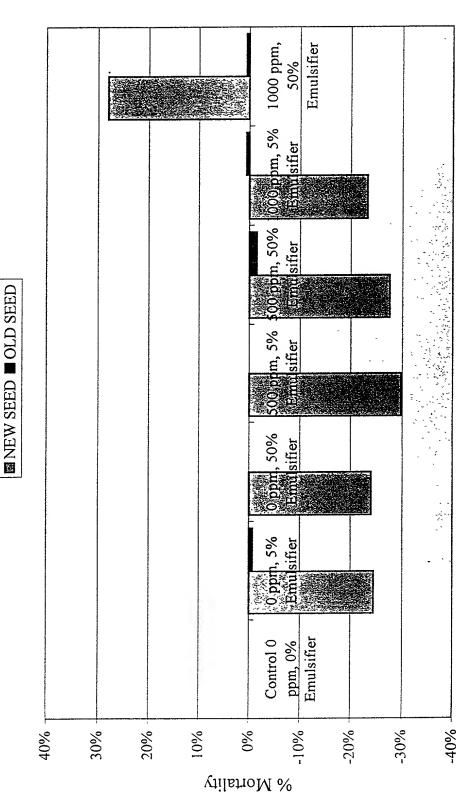
2 œ

SS 1.073936 0 11925 1.193188

Source of Varia Between Groups

Within Groups Total

% Mortality of New Weed Seeds Over Control Wild Mustard



Treatment

TC343.3 Chloropicrin EC - Lab Tests for Weed Seed Mortality YELLOW

Treatment Date = 10/28/1999 NUTGRASS
Weed Seed: Cyperus exculinus

| Weed Seed:   | Weed Seed: Cyperus exembinus            |           | Treatme                       | int Date =                     | Treatment Date = 10/28/1999 | Ž           | Number of Seeds/Dish =               | ds/Dish =                 | 00 <b>1</b> |       |           |         |         |               |        |           |         |           |             |           |
|--------------|---|-----------|-------------------------------|--------------------------------|-----------------------------|-------------|--------------------------------------|---------------------------|-------------|-------|-----------|---------|---------|---------------|--------|-----------|---------|-----------|-------------|-----------|
|              |   |           |                               | See                            | Seed Germination            | tion Counts | ınts                                 |                           |             |       |           |         |         | (% Mortality) | ality) |           |         |           |             |           |
|              |   |           | Date                          | Date of Count = 11/5/1999      | 11/5/1999                   |             | Date c                               | Date of Count = 11/9/1999 | 6661/6/11   |       |           |         |         |               |        |           |         |           | 1-1         |           |
| 20V-5        |   | Elapsed 7 | ime from Ti                   | Elapsed Time from Treatment == | 8 Days                      | Elapsed T   | lapsed Time from Treatment = 12 Days | eatment ==                | 12 Days     |       |           |         | <u></u> |               |        |           |         |           |             |           |
|              |   |           |                               |                                |                             |             |                                      |                           |             |       |           |         |         |               |        |           |         |           |             | ,         |
| -            |   |           |                               |                                |                             |             |                                      |                           |             |       |           |         |         |               |        |           |         |           | ≥           | Mortality |
|              |   |           |                               |                                |                             |             |                                      |                           |             |       |           |         |         | 1st Count     |        |           |         | 2nd       | 2nd Count   | Above     |
|              | Treatment                               |           | lst (                         | 1st Count                      |                             |             | 2nd Count                            | ount                      |             |       | 1st Count | ınt     | *       | at 8 Days     |        | 2nd Count | unt     | m 1.      | at 12 Days  | Control   |
| Seed Age     | Treatment Solution                      | Rep 1     | Rep 2                         | Rep 3                          | Rep 4                       | Rep 1       | Rep 2                                | Rep 3                     | Rep 4       | Rep 1 | Rep 2     | Rep 3 R | Rep 4   | Mean          | Rep 1  | Rep 2     | Rep 3 R | Rep 4 N   | Mean        | ļ         |
| ALIK SELD    | NEW SELD   Control 0 ppm, 0% Emulsifier | 0         | 0                             | 0                              | 0                           | 0           | 0                                    | 0                         | 0           | %00I  | 100%      | 100%    | 100%    | %001          | 100%   | 100%      | 100%    | 100%      | %001        | //0       |
| ALM SUED     | NIH SUED   0 ppm, 5% Emulsifier         | 0         | 0                             | 0                              | 0                           | 0           | 0                                    | 0                         | 0           | %001  | 100%      | 100%    | %001    | %001          | %001   | %001      | 100%    | 100%      | %001        | 0%0       |
| NEIL SELD    | WH WHI 111 O ppm, 50% Emulsifier        | 0         | 0                             | 0                              | 0                           | 0           | 0                                    | 0                         | 0           | %001  | 100%      | 100%    | 100%    | %001          | %001   | %001      | 100%    | 01 %001   | %001        | %0        |
| NI.W.SILD    | N.H.St.11 500 ppm, 5% Emulsifier        | 0         | 0                             | 0                              | 0                           | 0           | 0                                    | 0                         | 5           | 100%  | 100%      | 100%    | 100%    | %001          | 100%   | %001      | 6 %00!  | 6 %56     | %66         | -1%       |
| NI II. SETED | NI W.S.L.D. 500 ppm, 50% Emulsifier     | 0         | 0                             | 0                              | 0                           | 0           | 0                                    | 0                         | 2           | 100%  | 100%      | 100%    | 100%    | %001          | %001   | %001      | 6 %001  | 98% 10    | %001        | -1%       |
| NI B'SLED    | NI W.S. E.D. 1000 ppm, 5% Emulsifier    | 0         | 0                             | 0                              | 0                           | -           | 2                                    | 0                         | 0           | %001  | 100%      | 100%    | %001    | %001          | %66    | %86       | 100%    | 6 %001    | %66         | -1%       |
| NEIL SEED    | NEIT SEELD 1000 ppm, 50% Emulsifier     | 0         | 0                             | 0                              | 0                           | 0           | 0                                    | 0                         | 0           | 100%  | 100%      | 100%    | 100%    | 100%          | 100%   | %001      | 100%    | 100%      | 100%        | %0        |
|              |   |           | Date                          | of Count =                     | Date of Count = 11/8/1999   |             |                                      |                           |             |       |           |         |         |               |        |           |         |           |             |           |
|              |   | Elapsed 1 | Elapsed Time from Treatment = | reatment =                     | 11 Days                     |             |                                      |                           |             |       |           |         |         |               |        |           |         |           |             |           |
| CHID SHEED   | OLD SPRD   Control 0 ppm, 0% Emulsifier | 0         | 0                             | 0                              | 0                           | 0           | 0                                    | 0                         | 0           | 100%  | 100%      | 100%    | 100%    | 100%          | 100%   | 100%      | 100%    | 100%      | 100%        | %0        |
| OID SEED     | 0 ppm, 5% Emulsifier                    | 0         | 0                             | 0                              | 0                           | 0           | 0                                    | 0                         | 0 ~         | 100%  | 100%      | 100%    | 100%    | %001          | %00I   | %001      | 100%    | 100%      | <b>%001</b> | %0        |
| OTD SEED     | OHD SEED   0 ppm, 50% Emulsifier        | 0         | 0                             | 0                              | 0                           | 0           | 0                                    | 0                         | 0           | 100%  | %001      | 100%    | %001    | 100%          | 100%   | %001      | 100%    | )1   %001 | <b>100%</b> | %0        |
| OLD SEED     | OLD SEED 500 ppm, 5% Emulsifier         | 0         | 0                             | 0                              | 0                           | 0           | 0                                    | 0                         | 0           | %001  | 100%      | 100%    | %001    | 100%          | %001   | %001      | 100%    | )1   %001 | %001        | %0        |
| OLD SEED     | OLD SEED 500 ppm, 50% Emulsifier        | 0         | 0                             | 0                              | 0                           | 0           | 0                                    | 0                         | 0           | 100%  | %001      | 100%    | 100%    | %001          | %001   | %001      | 1 %001  | 100%      | %001        | %0        |
| OLD SEED     | OLD SEED   1000 ppm, 5% Emulsifier      | 0         | 0                             | 0                              | 0                           | 0           | 0                                    | 0                         | 0           | 100%  | %001      | 100%    | 100%    | %001          | %00I   | %001      | 1 %001  | )1 %001   | %001        | %0        |
| OLD SEED     | OLD SELD 1000 ppm, 50% Emulsifier       | 0         | 0                             | 0                              | 0                           | 0           | 0                                    | 0                         | 0           | 100%  | %001      | 100%    | 100%    | 100%          | %001   | %001      | 100%    | 100%      | %001        | %0        |

NEW SEED Anova Single Factor

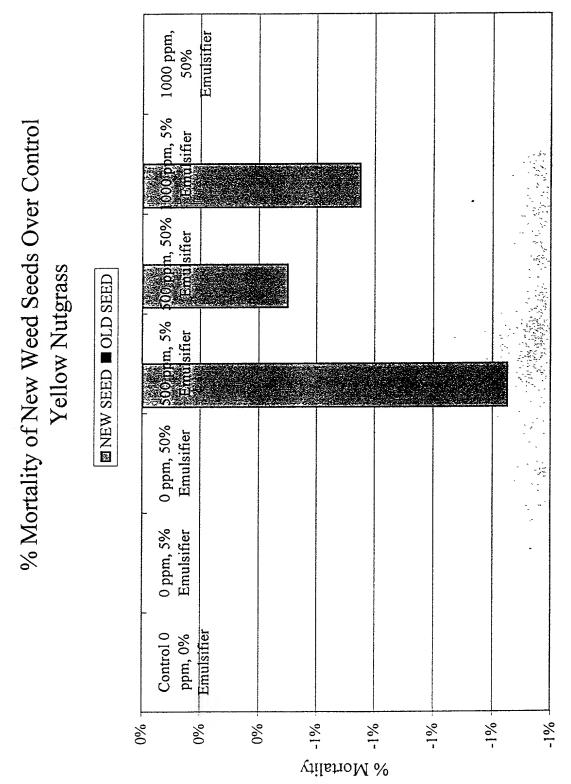
No Significance

OLD SEED

No Significance

1 0 0.9875 0.000625 0.995 1E-04 0.9925 9.1667E-05 3.95 3.98 3.97 SUMMARY Row 2 Row 3 Row 4 Row 6 Row 6 Row 7

| ANOVA               |          |    |            |            |         |                   |
|---------------------|----------|----|------------|------------|---------|-------------------|
| Source of Variation | SS       | þ  | WS         | ı,         | P-value | Fort              |
| Between Groups      | 0 000593 | æ  | 9 88E-05   | 0.84693878 |         | 0 548452 2 572712 |
| Within Groups       | 0 00245  | 21 | 21 0000117 |            |         |                   |
|                     | 4,000,0  | 1  |            |            |         |                   |



Treatment

Hardt Arrib and that that the Arrib Mark Hardy plants of the street of the test

েটোটো Chloropicrin EC - Lab Tests for Weed Seed Mortality YELLOW SWEET

Treatment Date = 10/28/1999 Weed Seed: A felilottis indica CLOVER

| Weed Seed   | Weed Seed: A felilotus indica        |         | Treatm                        | cut Date == | Treatment Date = 10/28/1999 |           | Number of Seeds/Dish                  | eds/Dish =                | 100       |      |           |       |          |           |               |           |      |       |            |           |
|-------------|--------------------------------------|---------|-------------------------------|-------------|-----------------------------|-----------|---------------------------------------|---------------------------|-----------|------|-----------|-------|----------|-----------|---------------|-----------|------|-------|------------|-----------|
|             |                                      |         |                               | See         | Seed Germination            | nation Co | Counts                                |                           |           |      |           |       |          | (% Mo     | (% Mortality) |           |      |       |            |           |
|             |                                      |         | Date                          | of Count    | Date of Count = 11/5/1999   |           | Date                                  | Date of Count = 11/9/1999 | 11/9/1999 |      |           |       |          | _         |               |           |      |       | -          |           |
|             |                                      | Lhapsed | Liapsed Time from Treatment ~ | licatment ~ | 8 Days                      | Elapsed   | Elapsed Time from Treatment - 12 Days | rentment =                | 12 Days   |      |           |       | ***      |           |               |           |      |       |            |           |
|             |                                      |         |                               |             |                             |           |                                       |                           |           |      |           |       |          |           |               |           |      |       |            | ,8        |
|             |                                      |         |                               |             |                             |           |                                       |                           |           |      |           |       |          |           |               |           |      |       |            | Mortality |
|             |                                      |         |                               |             |                             |           |                                       |                           |           |      |           |       |          | st Count  |               |           |      | 7     | 2nd Count  | Above     |
|             | reatment                             |         | lst (                         | C 1 -       | -                           |           | 2nd (                                 | 2nd Count                 |           |      | 1st Count | unt   | <b>~</b> | at 8 Days |               | 2nd Count | ount |       | at 12 Days | Control   |
| and page    | realment Solution                    | Kep     | Kep 2                         | Ž           | Rep 4                       | Rep       | Rep 2                                 | Rep 3                     | Rep 4     | Rep  | Rep 2     | Rep 3 | Rep 4    | Mean      | Rep !         | Rep 2     | 3    | Rep 4 | Mean       | (         |
| W.W.M.L.D   |                                      | 15      | 8                             | 02          | 8                           | 77        | 2                                     | 2                         | 8         | %58  | %76       | %06   | %26      | %06       | 78%           | %06       | %06  | 95%   | %88        | 00        |
| NEW NULL    |                                      | 12      | 17                            | 4           | 2                           | 4         | <u>8</u>                              | 12                        | 7         | %88  | 83%       | %98   | %56      | %88       | %98           | 82%       | 83%  | 930.6 | %98        | -26       |
| N.H.S/11D   |                                      | 82      | 7.7                           | 23          | 20                          | 52        | 33                                    | 30                        | 20        | 72%  | 26%       | 77%   | %08      | 26%       | %17           | 67%       | 70%  | 80%   | 72%        | %91-      |
| NI II NI II | 500 ppn 5% Finalstier                | 25      | ٧.                            | 0           | 8                           | 25        | 5                                     | 0                         | ∞         | 75%  | 95%       | %001  | 95%      | %16       | 750,0         | 956,      | %001 | 9200  | %16        | 3%        |
| AEB SELE    | NEIL MILLO SOU pum, SO's Linuishier  | S       | 2                             | 3           | 2                           | ~         | 7                                     | 3                         | 2         | %\$6 | %86       | %46   | %86      | %26       | %56           | %86       | %16  | %86   | %16        | 10%       |
| M.B. M.L.D  | W.H. W.L.D 1990, 5% Englisher        | -       | =                             | 0           | 4                           | -         | =                                     | 0                         | 4         | %66  | %68       | 100%  | %96      | %96       | %66           | %68       | %001 | %96   | %96        | %6        |
| WEIL SEED   | NEIL SEED   1000 ppm, 30% Enulsifier | ~       | 0                             | 0           | 0                           | 3         | 0                                     | 0                         | 0         | %16  | %001      | %001  | 100%     | %66       | %46           | 100%      | ╀    | 100%  | %66        | 17%       |
|             |                                      |         | Date                          | of Count =  | Date of Count = 11/8/1999   |           |                                       |                           |           |      |           |       |          |           |               |           |      |       |            | 27.77     |
|             |                                      | Elapsed | Elapsed Tune from Treatment = | Treatment = | 11 Days                     |           |                                       |                           |           |      |           |       |          |           |               |           |      |       |            |           |
| OLD SEED    |                                      | 4       | 3                             | 3           | 4                           | 4         | 3                                     | 3                         | 4         | %96  | %16       | %16   | %96      | 97%       | %96           | %26       | %10  | %90   | %16        | 700       |
| OLD SEED    |                                      | 7       | 12                            | 12          | 7                           | 7         | 12                                    | 12                        | 7         | 93%  | %88       | %88   | 93%      | %16       | 93%           | %88       | ╀    | 030%  | 010%       | 709       |
| OLD SLED    | 0 ppm, 50% Emulsifier                | 3       |                               | 2           | 3                           | 3         | -                                     | 3                         | 7         | %46  | %66       | %86   | %46      | %86       | %16           | %66       | %2.6 | 030%  | 970%       | 00%       |
| OLDSILD     | OHD SLLD 500 ppm, 5% Emulsifier      | 0       | 0                             | 0           | 0                           | 0         | 0                                     | 0                         | 0         | %001 | %001      | %001  | 100%     | 100%      | %001          | %001      | ╀    | %UU1  | 70001      | 10%       |
| OLDSTED     |                                      | -       | 0                             | 12          | 0                           | -         | 0                                     | 12                        | 0         | %66  | %001      | %88   | 100%     | %26       | %66           | 100%      | ↓_   | 3001  | 97%        | %0        |
| arra aro    | 1000 ppm, 5% Emulsifier              | 0       | 0                             | o           | ٥                           | ~         | 3                                     | 5                         | 0         | 100% | %001      | 100%  | 100%     | %001      | %16           | 92%       | ╁    | 100%  | %26        | 1%        |
| OLD SEED    | OLD SEED   1000 ppm, 50% Emulsifier  | 0       | 0                             | 0           | 0                           | 0         | 0                                     | 0                         | 0         | 100% | 100%      | %001  | 100%     | %001      | 100%          | %001      | -    | 300%  | 100%       | 4%        |

Anova Single Factor OLD SEED

SIGNIFICANT DIFFERENCE @ 99%

Anova Single Factor

SUMMARY

**NEW SEED** 

SIGNIFICANT DIFFERENCE @ 99%

Average Variance 0.965 3.33338E-05 0.905 0.00083333 0.965 0.00083333 0 003425 0.9675 386 362 386 386 387 389 SUMMARY
GROUPS
Row 1
Row 2
Row 3
Row 4
Row 5
Row 6
Row 6
Row 6
Row 6

0 875 0.0041 0 875 0.0041 0 88 0.0024697 0 72 0.003133 0 905 0.0117667 0 90 0.0002 0 98 0.00025

Row 3 Row 5 Row 6

MS F P-value Fort 6 0 00404 5.281931464 0 00186 3.81175 21 0 00076 ANOVA Source of Vane SS Between 1 0 02422 Within Gr 0.01605

MS F P-value 6 0 03442 9.8977078 3 16E-05 21 0.00348

ANOVA
Source of Vanation
Between Groups
Within Groups

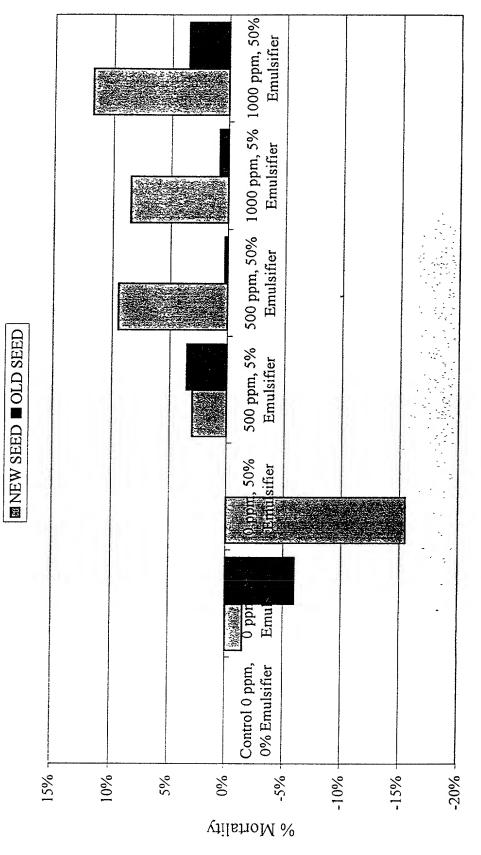
0 279725

Total

0.04027

Total

% Mortality of New Weed Seeds Over Control Yellow Sweet Clover

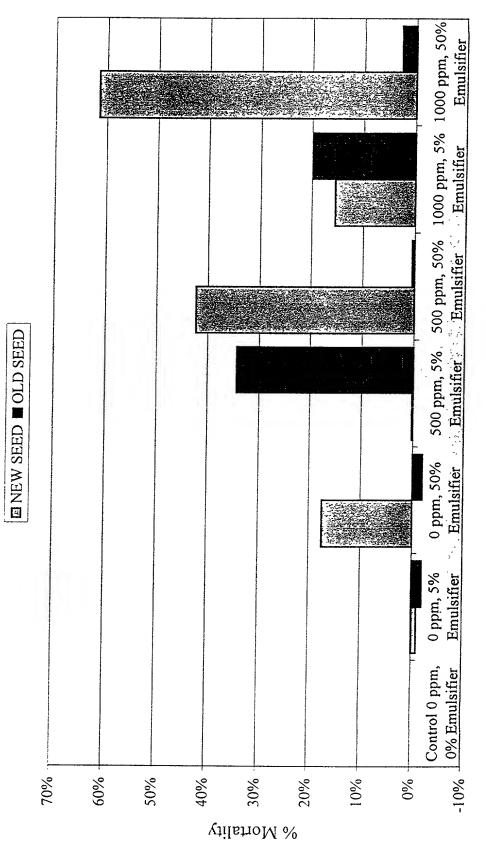


Treatment

T. 343.7 Chloropictin EC - Lab Tests for Weed Seed Mortality
BARNYARD GRASS

|                                  |                         | . ***             |                               | % 7         | Above     | Control    |          | 00%        | 10         | 31       | %010              | 12%   | 16%           | 62%                           |                                |                                 | %0       | -2%      | 9/.7-          | 34%      | 2006     | 30%                          | 3.00      |                              |   |         |          | (     |        |           |                   |                 |   |       |                    |   |        |                 |
|----------------------------------|-------------------------|-------------------|-------------------------------|-------------|-----------|------------|----------|------------|------------|----------|-------------------|-------|---------------|-------------------------------|--------------------------------|---------------------------------|----------|----------|----------------|----------|----------|------------------------------|-----------|------------------------------|---|---------|----------|-------|--------|-----------|-------------------|-----------------|---|-------|--------------------|---|--------|-----------------|
|                                  |                         |                   | *                             | <del></del> | 2nd Count | at 12 Days | Mean     | %99        | 20%        | 7010     | %,9               | 18%   | 22%           | %89                           |                                |                                 | 2%       | % è      | 0,70           | 30%      | 336      | %577                         | ال ۵٬۰۰   |                              |   |         |          |       |        |           |                   |                 |   |       |                    |   |        |                 |
|                                  |                         | _                 |                               |             |           |            | Rep 4    | %E         | %          | 9        | 12%               | 0,00  | 500           | %99                           |                                |                                 | %        | s è      | 926            | 50%      | 136      | 9/7/                         | T.,,,     |                              |   |         |          |       |        |           |                   |                 |   |       |                    |   |        |                 |
|                                  |                         |                   |                               |             |           | ount       | Rep 3    | %9         | %          | 850,     | 100               | 7500  | 50,0          | 93%                           |                                |                                 | %        | કું ફ    | ) 00           | % %      | 8        | %                            |           |                              |   |         |          |       |        |           |                   |                 |   |       |                    |   |        |                 |
|                                  |                         |                   |                               |             |           | 2nd Count  | Rep 2    | %0         | %          | %        | 30,0              | 7700  | 7%            | 95%                           |                                |                                 | 3%       | 80 8     | 70,0           | %        | 186      | %                            |           |                              |   |         |          |       |        |           |                   |                 |   |       |                    | 2 57271   |        |                 |
|                                  | rtality)                | (                 |                               |             |           |            | Rep 1    | <b>%</b> 0 | 20%        | 3%       | o <sub>o</sub> () | 4100  | 9,669         | 19%                           | ***<br>***<br>***              |                                 | %        | %        | 300            | 3,80     | 705-     | %                            |           | 001                          |   |         |          |       |        |           |                   |                 |   |       |                    | 0.09515   |        |                 |
|                                  | (% Mortality)           | <b>-</b>          |                               |             | 1st Count | at 8 Days  | Меяп     | 18%        | 24%        | 25%      | 25%               | 62%   | 46%           | 77%                           |                                | /0/                             | 0%0      | 30%      | 38%            | %9       | 34%      | 12%                          |           | No Significance              |   |         | Vanance  | 9000  | 0      | 0 140225  | 0 025 0 000833333 | 0.2175 0.117225 |   |       |                    | 0.07826 2.110372725 0.09515                       |        |                 |
|                                  |                         |                   |                               |             |           |            | Rep 4    | 29%        | 22         | %01      | 21%               | 0%0   | 2%            | %89                           |                                | /90                             | <b>%</b> | 80       | %16            | %8       | %08      | 10%                          |           | -                            |   |         | Average  | 200   | 0      | 0.3625    | 0 025             | 0 2175          |   |       | 9/10               | 0.07826   | 90/500 |                 |
|                                  |                         |                   |                               |             |           | ount       | Rep 3    | 12%        | 3%         | 85%      | 9611              | 85%   | 2%            | %88                           |                                | /80                             | Š        | %        | %5             | 282      | 7%       | 18%                          |           |                              |   |         | - 1      | 9 0   | 0      | 1 45      | 5 !               | 0.87            |   |       | ,,,                | φ ;   |        | 27              |
|                                  |                         |                   |                               |             |           | 1st Count  | Rep 2    | %0         | 7%         | %0       | 9,601             | 946   | %56           | 94%                           |                                | 703                             | 200      | 7%       | 7%             | 2%       | %0       | 12%                          |           | <u>e</u>                     | lie rector                              |         | Connt    | 4 4   | 4      | 4         | 4                 | 4 4             |   |       | 33                 | 0.46954   | 200    | Total . 1 24827 |
|                                  |                         |                   |                               |             |           |            | Rep 1    | ‰          | %06        | 2%       | 57%               | 00(3) | 95%           | 28%                           |                                | 200%                            | 200      | 3%       | 20%            | %!       | 54%      | 2%                           |           | OLD SEED                     | Alova Single Factor                     | SUMMARY | Circups  | Row 2 | Rowa   | Row 4     | Row 5             | Row 5           |   | ANONA | 1                  |   |        | Total           |
| 100                              |                         | 11/9/1999         | 12 Days                       |             |           |            | Rep 4    | 82         | 100        | 94       | 88                | 99    | 95            | 34                            |                                | 100                             | 3 2      | 8        | 17             | 95       | 28       | 93                           |           |                              |   | o, I    | 10       |       | . u.   | L.        | <b>L</b>          | . u.            | 1 | 4     | Source of Venation | Between   |        |                 |
| s/Dish =                         |                         | Date of Count = 1 |                               |             |           | nut        | Rep 3    | g          | 100        | 15       | 06                | 25    | 56            | 7                             |                                | 100                             | 2 2      | 001      | s <sub>e</sub> | 95       | 81       | 95                           |           |                              |   |         |          |       |        |           |                   |                 |   |       |                    |   |        |                 |
| Number of Seeds/Dish =           | ts                      | Date of           | e from Trea                   |             |           | ු.         |          | 8          | 8          | 001      | 97                | 23    | 55            |                               |                                | 97                              | - 8      | 8        | 93             | 100      | 100      | 94                           |           | %00 <b>©</b> 1               |   |         |          |       |        |           |                   |                 |   |       | Cut                | 572712  |        |                 |
| Num                              | Seed Germination Counts |                   | Elapsed Time from Treatment = |             |           |            | ┪        | 8          | 08         | 97       | 100               | 65    | 3             | 81                            |                                | \$6                             | 2 8      | 92       | 20             | 100      | 88       | ક                            |           | SIGNIFICANT DIFFERENCE @ 99% |   |         |          |       |        |           |                   |                 |   |       | value              | 0 231508 2.99868928 0 028176 2.572712<br>0 077202 |        |                 |
| 6661/8                           | rminati                 | 6661/5/11         | 8 Days                        |             |           |            | #        | 41         | 8          | 8        | 22                | 90    | 86            | 32                            | 11/8/1999                      | 100                             | 8        | 8        | 6              | 92       | 8        | 06                           |           | FICANT                       |   | 1       | 0.0072   | 001   | 0.1687 | 0 003225  | 7,0653            | 0 12016967      |   |       | 9                  | 68828 0   |        |                 |
| Treatment Date = 10/28/1999      | Seed Ge                 |                   |                               |             |           | -          | 4        | 1          | -          | -        | -                 | +     | $\frac{1}{2}$ |                               |                                |                                 | -        | L        |                |          |          |                              |           | Sign                         |   |         | 1        |       |        | 0,0625 0( | 0.215 0.130/3833  | 0.675 0 120     |   |       |                    | 508 2.98  |        |                 |
| atment Da                        | 01                      | Date of Count =   | m Treatme                     |             |           | ű-         |          | +          | -          | -        | 68                |       | 56            | 12                            | Date of Count =                | 100                             |          | 8        | 95             |          | _        | 82                           |           |                              |   | 1       | 024 0.06 |       |        |           |                   |                 |   |       | SW                 | 8 0231<br>21 0077                                 |        | 27              |
| Tre                              |                         |                   | Elapsed Time from Treatment = |             |           |            | Rep 2    | 2          | 88         | <u>8</u> | ફ                 | ا ت   | £             |                               | Elarged Time from Treetment == | 26                              | 180      | 93       | 93             | 86       | 20       | 88                           |           |                              |   | Sign    | 4        | 4     | 0      | 4 4       |                   |                 |   |       | f)                 | 88 X8   |        | 8               |
|                                  |                         |                   | Elapse                        |             |           |            | Rep      | 2          | 2          | જ        | <del></del>       | = :   | 7             | 77                            | r<br>Flans                     | 80                              | 8        | 97       | 20             | 66       | 4        | 93                           |           |                              |   | Count   | 1000     |       |        |           |                   |                 |   |       | SS                 | 1 389036  |        | 3 010286        |
| Weed Seed: Uchinochloa crusgalli |                         |                   |                               |             |           | L reat     | 7        | T          | T          | $\top$   | Т                 |       | Т             | and 1000 ppm, 30% immissifier |                                | ED Control 0 ppm, 0% Emulsifier |          |          |                | Т        | $\neg$   | i.D 1000 ppm, 50% Emulsifier | MEW SPEED | Anova Single Factor          | > A P P P P P P P P P P P P P P P P P P | Groups  | Row 1    | Row 2 | Row 3  | Row 5     | Row 6             | Row 7           |   | ANOVA | Source of Vanation | Between Groups .<br>Within Groups                 | H.     | - Cotal         |
| Weed S                           |                         | ,                 |                               |             |           | 9          | acc vise | NEB MEED   | WEIL STEED | NLB SLLD | CIN III           |       | CI I W. II W. | 3. 1. J.                      |                                | OLD SELD                        | OID SIED | aris aio | OID SITE       | OID SEED | OLD SLED | OLD SELD                     |           |                              |   |         |          |       |        |           |                   |                 |   |       |                    |   |        |                 |

% Mortality of New Weed Seeds Over Control Barnyard Grass



Treatment

# CS+3.3 Chloropicrin EC - Lab Tests for Weed Seed Mortality BINDWELD

| Weed Seed: ( )   | Weed Seed: Convolvulus arvensis  |                | Treatm      | ent Date =   | Treatment Date = 10/28/1999 |  | Number of Seeds/Dish =      | eds/Dish =                    | 100                                     |  |                 |               |             |  |  |                     |                 |   |  |                   |
|------------------|--|----------------|-------------|--|-----------------------------|--|-----------------------------|-------------------------------|---|--|-----------------|---------------|-------------|--|--|---------------------|-----------------|---|--|-------------------|
|                  |  |                |             | See  | Seed Germination Counts     | ation Co   | unts                        |                               |   |  |                 |               |             | (% Mortality)  | rtality)   |                     |                 |   |  |                   |
|                  |  |                | Date        | of Count   | Date of Count = 11/5/1999   |  | Date                        | Date of Count = 11/9/1999     | 6661/6/11                               |  |                 |               |             |  |  |                     |                 |   |  |                   |
| <del></del>      |  | Elapsed        | Time from 1 | Elapsed Time from Treatment =  | 8 Days                      | Elapsed 1  | Time from Ta                | Elapsed Time from Treatment = | 12 Days                                 |  |                 |               |             |  |  |                     |                 |   |  |                   |
|                  |  |                |             |  | •                           |  |                             |                               | ,                                       |  |                 |               | -           |  |  |                     |                 |   |  | %                 |
|                  |  |                |             |  |                             |  |                             |                               | -                                       |  |                 |               |             |  |  |                     |                 |   |  | Mortality         |
|                  |  |                |             |  |                             |  |                             |                               |   |  |                 |               | <u> </u>    | st Count   |  |                     |                 | 2   | 2nd Count                                | Above             |
| L                | Treatment  |                | lst         | 1st Count  |                             |  | 2nd (                       | 2nd Count                     |   |  | 1st Count       | unt           | œ           | at 8 Days  |  | 2nd Count           | nut             | at  | at 12 Days                               | Control           |
| Seed Age         | Treatment Solution   | Rep            | Rep 2       | Rep 3  | Rep 4                       | Rep 1  | Rep 2                       | Rep 3                         | Rep 4                                   | Rep 1  | Rep 2 Rep 3     | _             | Rep 4       | Mean   | Rep 1  | Rep 2   Rep 3       |                 | Rep 4   | Mean                                     |                   |
| NEW SEED CO.     | NEW SELD   Control 0 ppm, 6% Emulsifier  | 15             | 20          | 23   | 28                          | 80   | 84                          | 83                            | 78                                      | 85%  | %08             | 77%           | 72%         | 79%  | 70%  | %91                 | 17%             | 22%   | %61                                      | %0                |
| NI.W.SLLD   0 p  | N.H.SLLD   0 ppm, 5% Finalsifier   | 91             | 22          | 23   | 14                          | 59   | 59                          | 27                            | 81                                      | 84%  | 78%             | 77%           | %98         | %18  | 71%  | 71%                 | 73% 8           | 82%   | 74%                                      | 26%               |
| NI.W.SI ID   0 p | N.W.SI I D   0 ppm, 50% Emulsifier   | 61             | 15          | 15   | 91                          | 51   | 63                          | 55                            | 99                                      | %18  | %58             | %58           | 84%         | 84%  | 46%  | 37%                 | 45%             | 35%   | 45%                                      | 23% €             |
| VIII SVII 500    | VI II' ST LD [500 ppm, 5% Limulsifier  | 12             | 16          | 14   | 7                           | 54   | 63                          | 55                            | 99                                      | %88  | 84%             | %98           | 93%         | %88  | 46%  | 37%                 | 45%             | 35%   | 41%                                      | 22%               |
| NI 1111 111.     | ATH ATTO S00 ppm, 50% chambaffer   | 25             | 13          | 22   | 17                          | 62   | 13                          | 74                            | 95                                      | 75%  | 87%             | 78%           | 83%         | %18  | 380  | 87°o                | . 56%           | 140,0   | %61                                      | 30%               |
| VII 4110 100     | VIII SEED   1000 ppm, 5° a Emulsifier  | ×              | 15          | \$   | 12                          | 7  | 30                          | 10                            | 91                                      | 93%  | 85%             | 0.56          | 88°°        | %06  | 800  | 8()a°               | 9006            | 8.10.0  | 85%                                      | %99               |
| MERCALFO 100     | NEW SEPT. HERE ppm, 50% chaulsther   | v.             | ×           | ~  | 77                          | 7  | 15                          | 7                             | 10                                      | %56  | 92%             | 97%           | %96         | %56  | 9300   | 85%                 | 93%             | 96160   | %06                                      | 72%               |
|                  |  | TOTAL SERVICE  |             |  |                             |  |                             |                               |   |  |                 |               |             |  |  |                     |                 |   |  |                   |
| OLD SBBD Co      | OLD SBBD   Control 0 ppm, 0% Emulsifier  |                | 1 13.       | Sec. 28.   | 八、一四十一路,新鄉縣小路               | _  | 功夠成成了 如此等以我的 接此可聽院          | Shale Ber                     | <b>(1)</b>                              | が変化が   | 147.35 X X      | の場合の          | <b>新水水杨</b> | おおならしかなかがき (から中華) 一の関わえる。  | 1 かんながなり   | ) 14 4 1 to 1       | · Elis postable | 3 6   | 7 Hinaka                                 |                   |
| OLD SRED   0 p   | Oppm, 5% Emulsifier  | 2              |             | 1. 中一年之中,對時  | 机场进行                        | _  | designed complete absolutes |                               | 中域的概念                                   | - 1  | 多路市的            | 大学を           | 计数据         | (1) 100 (1) 1  | 1. J. A. A. J. |                     | 11/26           | 19.6  | 4. 1年初,2位《中国经济》。17g和夏季                   | 4.                |
| OLD SHILD   0 p  | OLD SHHD   0 ppm, 50% Emulsifier (2000)   1000   | 3 . 01         | ٠.          | 1. det 1. 304. 1   |                             | Charle Party   | <b>经验的基本</b>                | きの経済を                         | The second                              | SAN AND THE REAL PROPERTY.                   | orsteins macket | <b>有效效率</b>   | September 1 | STATES OF THE ST | J40 194  | 1 5 4 4 5 4 5 4 5 1 | 14 SORIA        | 18 4 1 1 3 E 18 18 18 18 18 18 18 18 18 18 18 18 18 | F 1 1 2 2 2 1 7 1                        |                   |
| OLD SBBD 500     | OLD SHHD   500 ppm, 5% Emulsifica 中华人民 中华 计图 1911年 中华 的中华 是 的特別的 和新的特殊   | 1. S. S. J. L. | 1,150p. M   | THE PROPERTY.  | <b>建筑成员</b>                 | では、大変な   | 1、华城桥4米                     | 拉                             | · 1000000000000000000000000000000000000 | <b>建工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工</b> | tion that !!    | September 148 |             | AND DESCRIPTION OF THE PROPERTY OF THE PROPERTY OF THE PARTY OF THE PA | 13/8/2003  | (1) (1) (1) (1) (1) | 4 补押令           |   | 1 144 - Legion                           | Benights to       |
| OLD SBBD 50k     | OLD SBBD 500 ppm, 50% Emulsifier 10, 20% [ 120 ppm, 50% [ 120 ppm, 50 | Sapara no      | 學學者學院       | A STATE OF THE PARTY OF THE PAR |                             | Seattle State of the State of t | 100 miles                   |                               |   |  |                 |               | A NEWSTERN  | 44 (O) 44  | S.C. AND   | 生 海 一               | ALCOHOL: AND    | A STATE   | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | 在建筑地址             |
| COLD SEED IN 10  | S. OLD SERD (A) 1000 ppm (S. Harding and All Services)   |                |             |  |                             |  |                             |                               |   |  | 1               | 7             |             |  | 5  |                     |                 |   |  |                   |
| AND SOUND FOR    | AND PARTIES HOWENESSONS HINDER   |                | A           |  |                             |  |                             |                               |   |  |                 |               | * LUA: U.S. | The state of the s |  |                     |                 | add or  |  | The second second |

NEW SEED Anova Single Factor

SIGNIFICANT DIFFERENCE @ 99%

 SUMMARY
 Count
 Sum
 Average
 Variance

 Row1
 4
 0.75
 0.1875
 0.0007583

 Row2
 4
 0.75
 0.1875
 0.0007583

 Row3
 4
 1.66
 0.415
 0.004367

 Row4
 4
 1.68
 0.045
 0.0043697

 Row5
 4
 1.65
 0.4075
 0.000425

 Row6
 4
 1.65
 0.0075
 0.001333

 Row7
 4
 3.61
 0.9025
 0.001425

| ANOVA               |          |    |          |  |          |          |
|---------------------|----------|----|----------|--|----------|----------|
| Source of Variation | SS       | η  | WS       | Ę.                                     | P-value  | Fcnt     |
| Between Groups      | 1 689021 | 8  | 0.281504 | 6 0.281504 23.248746 2.97E-08 3.811749 | 2.97E-08 | 3,811749 |
| Within Groups       | 0 254275 | 21 | 0.012108 |  |          |          |
|                     |          |    |          |  |          |          |
| Total               | 1 943296 | 27 |          |  |          |          |
|                     |          |    |          |  |          |          |

% Mortality of New Weed Seeds Over Control Bindweed

